

Image Share Pane Tool: Image Sending Approach to Mobile via Bluetooth Device

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Abstract— Nowadays, Microsoft Word is commonly used in various areas including industries and academia. Microsoft word has introduced great user friendly features, for instance, Screenshot and Screen Clipping, Smart lookup, Tell Me and others. Among them, Layout option button has given us to set objects with line in text. Furthermore, Different types of panes have provided for various tasks. Microsoft Word has given us a facility to greet with thumbnail image of every window you have opened at the moment. Many users while working on document need to insert or capturing images with Screenshot and Screen Clipping, they want to share inserted images to mobile via Bluetooth But, Users are disappointed because there is no any tool provided to accomplish that task and user takes a long procedure to apply for sharing images to mobile through the Bluetooth. This paper provides an application which helps users to send an inserted image via Bluetooth while working on Microsoft word and they do not to switch any window. By adding it into existing Microsoft Word it will helpful for people living across the world.

Keywords- Screen Clipping; Layout Option; Share Option Button; Share Image Pane; Image capture format type

I. INTRODUCTION

People have been using different word processing software to creating documents including king Soft writer, WordStar, Atlantis word processor and so on. But Microsoft Word is one of the most common word processing applications for windows users. Part of the Microsoft Office 2013 suit of programs, it is sophisticated and helps users quickly and efficiently write, format, and publish all the business and personal documents including letters, flyers, and reports [1]. Microsoft Word introduced several enhanced features including the ability to create and collaborate on documents online.

Microsoft Word 2013 has the main component called Ribbon that contains different commands according to relative tabs, also provides formatting applying styles, inserting images, printing documents and getting help. Moreover, Screenshot and Screen Clipping has been providing capability to receive with thumbnail image of each window users have opened instantly and use Layout option button to set object with text wrapping [1].

II. SCREENSHOT AND SCREEN CLIPPING TOOL

These days, many people rely on the Internet as a source of the information they use in their daily lives. Sometimes that information is given through images that would also be useful in a Word documents. Word 2013 included a screen clipping tool that user can use to capture an image that is visible on

computer screen. The sample image is depicted in “Fig.1.”. User simply display the content, want to include in a document, open the document, and click the Screenshot button in the Illustrations group on the Insert tab. You can then insert a screen clipping in one of two ways: (1) Click a window thumbnail in the Screenshot gallery inserts a picture of that window into the document at the cursor. (2) Click Screen clipping below the gallery enables you to drag across the part of the screen you want to capture, so that only that part is inserted as a picture into the document [1]. Each picture has its own format type such as JPEG, PNG, GIF, Windows Bitmap, and Tag Image File Format [8], the shooting method of getting picture is also different for these formats [9].

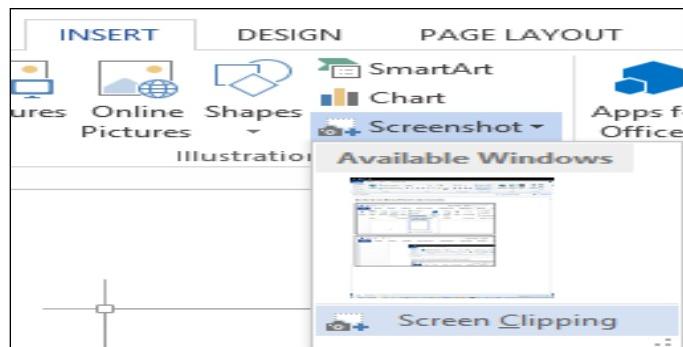


Figure.1. While choosing screen clipping

III. LAYOUT OPTION BUTTON

Once a picture inserted into current document only Layout option button appears automatically from the right side of a picture or whenever a picture is selected which is already encircled as shown in “Fig.2. By Clicking Layout option button, it will display a menu that provides the quick format position without accessing the ribbon.



Figure.2. after Image insertion

IV. TYPES OF PANES

Microsoft Word has given many facilities to the users in the shape panes. User can perform several tasks by using these pans. The induction of most common pans like Reviewing pane, Navigation pane, Translation pane and Task pane are given below.

A. Reviewing Pane

Reviewing pane used to compare two documents and mark the differences or Sometime Word does not display complete text of a comment in a balloon with the use of reviewing pane we can see complete comments [7]. Reviewing pane is also record the track changes action and indicate us to what happen with your document while in your absence it keep action which has done by someone such as edit, format, and deleted paragraphs.

B. Navigation Pane

Navigation pane helps us to find the pages with thumbnails as well as included headings and indicate us to where you are. It also provides to search any paragraph on results tab and showing highlighted text as a result. A small thumbnail displays for each existence discovered for the word or phrase entered. Word or phrase is provisionally highlighted on the screen, as well, allowing you to quickly spot the text for which you are searching [1].

C. Translation Pane

Translation pane is one of the best tools which enable user to translate selected or whole document from one language to another. Microsoft Translator service has provided free service. Once selected text send to translation process, webpage will display translated text into required language such as English [1].

D. Task Pane

Task pane is used to show or hide ribbon. Each window has different task pane options use to perform different tasks such as move, size, close the window. It is also store copied text into the clipboard for paste into the document. In startup task pane user can create new document, save, close, open and print documents [1].

V. RELATED WORK

Lot of work has been done and published in the literature pertain to sending the data and different types of files from one device to another or one network to another network. But, only little work has been observed for sending image to mobile via Bluetooth and others while creating Microsoft Word Document. Different media files can be share and uploaded via Smartphone [2]. Mahapadi [3] identified that existing peer to peer system was used for data transmission but there were some limitations with Data transmission through Bluetooth, author proposed application through which data, files, images can share without the facility of internet. On the

other side, Tripathy [4] discussed that due to diversification of system and their operating environment it is some time impossible to transfer data from one system to another. He developed a Microchip and described that if the Bluetooth microchip embedded on the pen drive then data can be transfer easily. Moreover, he also mentioned that through this technique over all speed of system may be reduce but the developed technique is useful enough for the sending files. Jadhav [5] presented a framework to annotate and search files on mobile devices, semantic file annotation were used with different context. Jeon [6] proposed a mechanism for sharing the different seamless files for android devices which are connected with different Networks and operating systems.

This paper provides an application which can send captured image via Bluetooth during create Microsoft Word document without swapping window and they do not essential to take a time consuming process. We have proposed an application and experiment based on .Net framework using object oriented programming methods. The significance of this research users who has no flash drive and user has captured lot of images while working on document using screen clipping tool from websites and wants to send those images to mobile without document saving and switching different windows it can do it easily.

VI. PROPOSED WORK

In our proposed work, we have used Visual C# built-in Class named Share Image Pane, some buttons which is based on methods and open and save Dialog box classes were used to retrieve images from computer drives and save pictures with it file format type, checkbox button is used for selecting more than one images. Once user inserts an image into current document by using open dialog box class, Share option button will appear which is beneath the layout option button” “Fig.3.” shows an image having share option button.



Figure.3. shows share option button beneath layout option button

In “Fig.3.” which is based on two buttons representing different functions, the first one is layout option button which we have already discussed that it is already introduced by Microsoft Word. The second one is our proposed share option

button which helps to call a class named share image pane and it is a simple form class used to accomplish experiment. It detects active Bluetooth devices after saving image. Furthermore, this class contains one Label which retrieves the location of stored picture, two major buttons and its description is given below.

A. Save Button

It is Visual C# .Net framework built-in tool which helps user to save captured image into any particular Computer drive while working on current document. It calls a save dialog box for choosing location and selecting image file format type. Once it is stored on given location the next button will enable and share image class will detect active Bluetooth along with captured image. "Fig.4." illustrates share image pane before saving any captured image.



Figure 4. Share Image Pane before saving an image

In "Fig.4." shows share image pane which contains two standard buttons.

B. Share Button

It helps user to send an image with different detected Bluetooth. It is grounded with some built-in methods provided by visual studio. It applies traditional file sending technique via Bluetooth. Moreover, it uses namespace and common Application Programming Interface (API) for sending pictures to mobiles. Share Image pane also uses namespace for importing its method. We have used integrated development environment of Visual C# where all objects are available and these are predefined controls. This button identifies the location where the file actually stored which is contained on Share images pane Label beneath the save button. By clicking on checkbox button, users can select more than one image simultaneously. It provides a process for checking and un-checking images more than one among the retrieved pictures into Share Image form. The graphical representation of proposed application is depicted in "Fig.5."



Figure 5. Share Image pane after saving image

In "Fig.5." shows detected Bluetooth devices of different smart phone and a picture has selected with checkbox button for sending to required Bluetooth depends on user where to send image.

VII. DISCUSSION

Microsoft Word has been introduced lot of features including storing file into the cloud via internet; share that link with different users. Tell me feature which retrieves exact information which is required by user. Screen Clipping is also an effective tool of Microsoft Word used to capture image from any active window. Users can save that picture by right click on image area. It appears a popup menu consisting of a list of commands, by choosing a save picture command user can easily store it into computer drive. If a user wants to send that captured image to mobile with the help of Bluetooth device it takes a long procedure to do it because, there is no any command available for sending that image through the Bluetooth device while working on document. It cannot send an image until it reaches to stored file location. Many steps are taken by a user for sending images to mobile via Bluetooth Device such as closing current document, jumps to stored file path, right clicking on required image, selecting Bluetooth option from popup menu, etc.

We have presented an application which prevents to take a long procedure for sending an image. Users do not need to close current document and follow above mentioned steps. Once a user inserted an image, share option button will appear beneath the layout option but which is already introduced by Microsoft word. We have placed that button as a prototype. Share option button is a part of our proposed

application which calls the share image pane class. It is designed in Visual C# using object oriented programming. It contains on two buttons. Save button is used to store an image and share button is used for sending an image to mobile via Bluetooth device without closing document. It enables user to send an image at the same time.

CONCLUSION

Microsoft Word provided various facilities and features to the users including the image capturing with Screenshot and Screen Clipping process. Some users need to share their inserted images to mobile via Bluetooth. But users are dissatisfied due to the unavailability of the tool that can provide such facility. This paper presented an application which uses Share Option Button and Share Image Pane with for sharing images to mobiles via Bluetooth. The execution process of proposed application is also described and presented. By adding this part of an application into existing Microsoft Word users can send images without switching from one window to another and it will be beneficial and useful for users.

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